

0590
1023

#5

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/903,216

DATE: 10/24/2001
 TIME: 15:12:30

Input Set : A:\Rih32d21.app
 Output Set: N:\CRF3\10242001\I903216.raw

3 <110> APPLICANT: Wands, Jack R.
 4 de la Monte, Suzanne M.
 5 Ince, Nedim
 6 Carlson, Rolf I.
 8 <120> TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
 10 <130> FILE REFERENCE: 21486-032 DIV2
 12 <140> CURRENT APPLICATION NUMBER: 09/903,216
 13 <141> CURRENT FILING DATE: 2001-07-11
 15 <150> PRIOR APPLICATION NUMBER: 09/436,184
 16 <151> PRIOR FILING DATE: 1999-11-08
 18 <160> NUMBER OF SEQ ID NOS: 9
 20 <170> SOFTWARE: PatentIn Ver. 2.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 36
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
 29 EGF-like domain
 31 <220> FEATURE:
 32 <221> NAME/KEY: VARIANT
 33 <222> LOCATION: (2)..(8)
 34 <223> OTHER INFORMATION: Wherein Xaa is any amino acid
 36 <220> FEATURE:
 37 <221> NAME/KEY: VARIANT
 38 <222> LOCATION: (10)..(13)
 39 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.
 41 <220> FEATURE:
 42 <221> NAME/KEY: VARIANT
 43 <222> LOCATION: (15)..(24)
 44 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.
 46 <220> FEATURE:
 47 <221> NAME/KEY: VARIANT
 48 <222> LOCATION: (26)
 49 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.
 51 <220> FEATURE:
 52 <221> NAME/KEY: VARIANT
 53 <222> LOCATION: (28)..(35)
 54 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.
 56 <400> SEQUENCE: 1
 W--> 57 Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa
 58 1 5 10 15
 W--> 60 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Cys Xaa Xaa Xaa Xaa Xaa
 61 20 25 30
 W--> 63 Xaa Xaa Xaa Cys
 64 35
 67 <210> SEQ ID NO: 2

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/903,216

DATE: 10/24/2001
TIME: 15:12:30

Input Set : A:\Rih32d21.app
Output Set: N:\CRF3\10242001\I903216.raw

68 <211> LENGTH: 758
69 <212> TYPE: PRT
70 <213> ORGANISM: Homo sapiens
72 <400> SEQUENCE: 2
73 Met Ala Gln Arg Lys Asn Ala Lys Ser Ser Gly Asn Ser Ser Ser Ser
74 1 5 10 15
76 Gly Ser Gly Ser Gly Ser Thr Ser Ala Gly Ser Ser Ser Pro Gly Ala
77 20 25 30
79 Arg Arg Glu Thr Lys His Gly Gly His Lys Asn Gly Arg Lys Gly Gly
80 35 40 45
82 Leu Ser Gly Thr Ser Phe Phe Thr Trp Phe Met Val Ile Ala Leu Leu
83 50 55 60
85 Gly Val Trp Thr Ser Val Ala Val Val Trp Phe Asp Leu Val Asp Tyr
86 65 70 75 80
88 Glu Glu Val Leu Gly Lys Leu Gly Ile Tyr Asp Ala Asp Gly Asp Gly
89 85 90 95
91 Asp Phe Asp Val Asp Asp Ala Lys Val Leu Leu Gly Leu Lys Glu Arg
92 100 105 110
94 Ser Thr Ser Glu Pro Ala Val Pro Pro Glu Glu Ala Glu Pro His Thr
95 115 120 125
97 Glu Pro Glu Glu Gln Val Pro Val Glu Ala Glu Pro Gln Asn Ile Glu
98 130 135 140
100 Asp Glu Ala Lys Glu Gln Ile Gln Ser Leu Leu His Glu Met Val His
101 145 150 155 160
103 Ala Glu His Val Glu Gly Glu Asp Leu Gln Gln Glu Asp Gly Pro Thr
104 165 170 175
106 Gly Glu Pro Gln Gln Glu Asp Asp Glu Phe Leu Met Ala Thr Asp Val
107 180 185 190
109 Asp Asp Arg Phe Glu Thr Leu Glu Pro Glu Val Ser His Glu Glu Thr
110 195 200 205
112 Glu His Ser Tyr His Val Glu Glu Thr Val Ser Gln Asp Cys Asn Gln
113 210 215 220
115 Asp Met Glu Glu Met Met Ser Glu Gln Glu Asn Pro Asp Ser Ser Glu
116 225 230 235 240
118 Pro Val Val Glu Asp Glu Arg Leu His His Asp Thr Asp Asp Val Thr
119 245 250 255
121 Tyr Gln Val Tyr Glu Glu Gln Ala Val Tyr Glu Pro Leu Glu Asn Glu
122 260 265 270
124 Gly Ile Glu Ile Thr Glu Val Thr Ala Pro Pro Glu Asp Asn Pro Val
125 275 280 285
127 Glu Asp Ser Gln Val Ile Val Glu Glu Val Ser Ile Phe Pro Val Glu
128 290 295 300
130 Glu Gln Gln Glu Val Pro Pro Glu Thr Asn Arg Lys Thr Asp Asp Pro
131 305 310 315 320
133 Glu Gln Lys Ala Lys Val Lys Lys Lys Pro Lys Leu Leu Asn Lys
134 325 330 335
136 Phe Asp Lys Thr Ile Lys Ala Glu Leu Asp Ala Ala Glu Lys Leu Arg
137 340 345 350
139 Lys Arg Gly Lys Ile Glu Glu Ala Val Asn Ala Phe Lys Glu Leu Val

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/903,216

DATE: 10/24/2001
TIME: 15:12:30

Input Set : A:\Rih32d21.app
Output Set: N:\CRF3\10242001\I903216.raw

140	355	360	365
142	Arg Lys Tyr Pro Gln Ser Pro Arg Ala Arg Tyr Gly Lys Ala Gln Cys		
143	370	375	380
145	Glu Asp Asp Leu Ala Glu Lys Arg Arg Ser Asn Glu Val Leu Arg Gly		
146	385	390	395
148	Ala Ile Glu Thr Tyr Gln Glu Val Ala Ser Leu Pro Asp Val Pro Ala		400
149	405	410	415
151	Asp Leu Leu Lys Leu Ser Leu Lys Arg Arg Ser Asp Arg Gln Gln Phe		
152	420	425	430
154	Leu Gly His Met Arg Gly Ser Leu Leu Thr Leu Gln Arg Leu Val Gln		
155	435	440	445
157	Leu Phe Pro Asn Asp Thr Ser Leu Lys Asn Asp Leu Gly Val Gly Tyr		
158	450	455	460
160	Leu Leu Ile Gly Asp Asn Asp Asn Ala Lys Lys Val Tyr Glu Glu Val		
161	465	470	475
163	Leu Ser Val Thr Pro Asn Asp Gly Phe Ala Lys Val His Tyr Gly Phe		
164	485	490	495
166	Ile Leu Lys Ala Gln Asn Lys Ile Ala Glu Ser Ile Pro Tyr Leu Lys		
167	500	505	510
169	Glu Gly Ile Glu Ser Gly Asp Pro Gly Thr Asp Asp Gly Arg Phe Tyr		
170	515	520	525
172	Phe His Leu Gly Asp Ala Met Gln Arg Val Gly Asn Lys Glu Ala Tyr		
173	530	535	540
175	Lys Trp Tyr Glu Leu Gly His Lys Arg Gly His Phe Ala Ser Val Trp		
176	545	550	555
178	Gln Arg Ser Leu Tyr Asn Val Asn Gly Leu Lys Ala Gln Pro Trp Trp		
179	565	570	575
181	Thr Pro Lys Glu Thr Gly Tyr Thr Glu Leu Val Lys Ser Leu Glu Arg		
182	580	585	590
184	Asn Trp Lys Leu Ile Arg Asp Glu Gly Leu Ala Val Met Asp Lys Ala		
185	595	600	605
187	Lys Gly Leu Phe Leu Pro Glu Asp Glu Asn Leu Arg Glu Lys Gly Asp		
188	610	615	620
190	Trp Ser Gln Phe Thr Leu Trp Gln Gln Gly Arg Arg Asn Glu Asn Ala		
191	625	630	635
193	Cys Lys Gly Ala Pro Lys Thr Cys Thr Leu Leu Glu Lys Phe Pro Glu		
194	645	650	655
196	Thr Thr Gly Cys Arg Arg Gly Gln Ile Lys Tyr Ser Ile Met His Pro		
197	660	665	670
199	Gly Thr His Val Trp Pro His Thr Gly Pro Thr Asn Cys Arg Leu Arg		
200	675	680	685
202	Met His Leu Gly Leu Val Ile Pro Lys Glu Gly Cys Lys Ile Arg Cys		
203	690	695	700
205	Ala Asn Glu Thr Arg Thr Trp Glu Glu Gly Lys Val Leu Ile Phe Asp		
206	705	710	715
208	Asp Ser Phe Glu His Glu Val Trp Gln Asp Ala Ser Ser Phe Arg Leu		
209	725	730	735
211	Ile Phe Ile Val Asp Val Trp His Pro Glu Leu Thr Pro Gln Gln Arg		
212	740	745	750

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/903,216

DATE: 10/24/2001

TIME: 15:12:30

Input Set : A:\Rih32d21.app

Output Set: N:\CRF3\10242001\I903216.raw

214 Arg Ser Leu Pro Ala Ile

215 755

218 <210> SEQ ID NO: 3

219 <211> LENGTH: 2324

220 <212> TYPE: DNA

221 <213> ORGANISM: Homo sapiens

223 <400> SEQUENCE: 3

224	cggaccgtgc	aatggcccag	cgtaaaatg	ccaaaggcag	cgccaacacg	agcagcagcg	60
225	gctccggcag	cggtagcacg	agtgcgggca	gcaggcagccc	cggggccccgg	agagagacaa	120
226	agcatggagg	acacaagaat	gggagggaaag	gcggactctc	gggaacttca	ttcttcacgt	180
227	gttttatggt	gattgcattg	ctggcgctct	ggacatctgt	agctgtcggt	tggtttgatc	240
228	ttgttacta	tgaggaagtt	ctaggaaaaac	taggaatcta	tgatgtcgat	ggtgatggag	300
229	attttgcgt	ggatgtgcc	aaagttttat	taggacttaa	agagagatct	acttcagagc	360
230	cagcagtccc	gccagaagag	gctgagccac	acactgagcc	cgaggaggcag	gttcctgtgg	420
231	aggcagaacc	ccagaataatc	gaagatgaag	caaagaaca	aattcagtc	cttctccatg	480
232	aaatggtaca	cgcagaacat	gttgaggggag	aagacttgca	acaagaagat	ggaccacag	540
233	gagaaccaca	acaagaggat	gtatgttttc	ttatggcgac	tgatgttagat	gatagattt	600
234	agaccctgga	acctgaagta	tctcatgaag	aaaccgagca	tagttaccac	gtgaaagaga	660
235	cagtttcaca	agactgtaat	caggatatgg	aagagatgtat	gtctgagcag	gaaaatccag	720
236	attccagtga	accagtagta	gaagatgaaa	gattgcacca	tgatacagat	gatgtAACAT	780
237	accaagtcta	tgaggaacaa	gcagttatgt	aacctctaga	aaatgaaggg	atagaaatca	840
238	cagaagtaac	tgctccccct	gaggataatc	ctgttagaaga	ttcacaggtt	attttagaaag	900
239	aagtaagcat	ttttcctgtg	gaagaacacg	aggaagtacc	accagaaaca	aatagaaaaaa	960
240	cagatgtatcc	agaacaaaaaa	gcaaaaagtta	agaaaaagaa	gcctaaactt	ttaaataaaat	1020
241	ttgataagac	tattaaagct	gaacttgcgt	ctgcagaaaa	actccgtaaa	agggaaaaaa	1080
242	ttgaggaagc	agtgaatgca	ttaaagaaac	tagtacgaa	ataccctcag	agtccacgag	1140
243	caagatatgg	gaaggcgcag	tgtgaggatg	atttggctga	gaagaggaga	agtaatgagg	1200
244	tgctacgtgg	agccatcgag	accttaccaag	aggtggccag	cctacctgtat	gtccctgcag	1260
245	acctgctgaa	gctgagtttgc	aagcgtcgt	cagacaggca	acaatttctta	ggtcatatga	1320
246	gaggtccct	gttaccctg	cagagattag	ttcaactatt	tcccaatgtat	acttccctaa	1380
247	aaaatgacct	tggcggtgg	taccttta	taggatata	tgacaatgca	aagaaagttt	1440
248	atgaagaggt	gctgagtggt	acacctaatt	atggcttgc	taaagtccat	tatggcttca	1500
249	tcctgaaggc	acagaacaaa	attgtctgaga	gcatcccata	ttaaaggaa	ggaatagaat	1560
250	ccggagatcc	tggactgtat	gatgggagat	tttatttcca	cctggggat	gccatgcaga	1620
251	gggttggaa	caaagaggca	tataagtgt	atgagcttgg	gcacaagaga	ggacacttt	1680
252	catctgtctg	gcaacgctca	ctctacaatg	tgaatggact	gaaagcacag	ccttgggtgg	1740
253	ccccaaaaga	aacggctac	acagagttag	taaagtcttt	agaaagaaac	tggaaagttaa	1800
254	tccgagatga	aggccttgca	gtgtatggata	aagccaaagg	tctcttcctg	cctgaggatg	1860
255	aaaacctgag	ggaaaaaagg	gactggagcc	agttcacgct	gtggcagcaa	ggaagaagaa	1920
256	atgaaaatgc	ctgcaaaagg	gctcctaaaa	cctgtacctt	actagaaaaag	ttccccgaga	1980
257	caacaggatg	cagaagagga	cagatcaa	attccatcat	gcaccccg	actcacgtt	2040
258	ggccgcacac	aggcccaca	aactgcaggc	tccgaatgca	cctgggcttg	gtgattccca	2100
259	aggaaggctg	caagattcga	tgtgccaacg	agaccaggac	ctggggagggaa	ggcaagggtgc	2160
260	tcatcttga	tgactcttt	gagcacgagg	tatggcagga	tgcctcatct	ttccggctga	2220
261	tattcatcg	ggatgtgtgg	catccggaaac	tgacaccaca	gcagagacgc	agccttccag	2280
262	caatttagca	tgaattcatg	caagcttggg	aaactctgga	gaga		2324
265	<210>	SEQ ID NO:	4				
266	<211>	LENGTH:	31				
267	<212>	TYPE:	PRT				

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/903,216

DATE: 10/24/2001
TIME: 15:12:30

Input Set : A:\Rih32d21.app
Output Set: N:\CRF3\10242001\I903216.raw

268 <213> ORGANISM: Artificial Sequence
 270 <220> FEATURE:
 271 <223> OTHER INFORMATION: Description of Artificial Sequence: EGF-like
 272 cysteine-rich repeat
 274 <220> FEATURE:
 275 <221> NAME/KEY: VARIANT
 276 <222> LOCATION: (3)..(5)
 277 <223> OTHER INFORMATION: Wherein any Xaa may be any amino acid
 279 <220> FEATURE:
 280 <221> NAME/KEY: VARIANT
 281 <222> LOCATION: (6)..(7)
 282 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.
 284 <220> FEATURE:
 285 <221> NAME/KEY: VARIANT
 286 <222> LOCATION: (10)
 287 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.
 289 <220> FEATURE:
 290 <221> NAME/KEY: VARIANT
 291 <222> LOCATION: (14)
 292 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.
 294 <220> FEATURE:
 295 <221> NAME/KEY: VARIANT
 296 <222> LOCATION: (17)..(18)
 298 <220> FEATURE:
 299 <221> NAME/KEY: VARIANT
 300 <222> LOCATION: (25)..(26)
 301 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.
 303 <220> FEATURE:
 304 <221> NAME/KEY: VARIANT
 305 <222> LOCATION: (29)
 306 <223> OTHER INFORMATION: Wherein Xaa is any amino acid.
 308 <400> SEQUENCE: 4
 W--> 309 Cys Asp Xaa Xaa Xaa Cys Xaa Xaa Lys Xaa Gly Asn Gly Xaa Cys Asp
 310 1 5 10 15
 W--> 312 Xaa Xaa Cys Asn Asn Ala Ala Cys Xaa Xaa Asp Gly Xaa Asp Cys
 313 20 25 30
 316 <210> SEQ ID NO: 5
 317 <211> LENGTH: 1242
 318 <212> TYPE: PRT
 319 <213> ORGANISM: Homo sapiens
 321 <400> SEQUENCE: 5
 322 Met Ala Ser Pro Pro Glu Ser Asp Gly Phe Ser Asp Val Arg Lys Val
 323 1 5 10 15
 325 Gly Tyr Leu Arg Lys Pro Lys Ser Met His Lys Arg Phe Phe Val Leu
 326 20 25 30
 328 Arg Ala Ala Ser Glu Ala Gly Gly Pro Ala Arg Leu Glu Tyr Tyr Glu
 329 35 40 45
 331 Asn Glu Lys Lys Trp Arg His Lys Ser Ser Ala Pro Lys Arg Ser Ile
 332 50 55 60

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/903,216

DATE: 10/24/2001
TIME: 15:12:31

Input Set : A:\Rih32d21.app
Output Set: N:\CRF3\10242001\I903216.raw

L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4